

**ABSTRACT OF THE DISCLOSURE**

A method of making a microarray comprising the steps of:

- providing a support;
- coating on the support a receiving layer to receive microspheres, the receiving layer being capable of undergoing sol/gel transition;
- coating on the receiving layer a dispersion of microspheres in a carrier fluid, wherein the carrier fluid contains at least one crosslinking agent and is capable of solvating the receiving layer;
- allowing the microspheres to partially submerge into the receiving layer;
- creating conditions to induce sol/gel transition in the receiving layer, thus immobilizing the microspheres;
- evaporating off the carrier fluid; and
- allowing crosslinking reaction between the receiving layer and the crosslinker in the carrier fluid.